

SEQUENCE LISTING

<110> Bruce, Wesley B.

<120> A Nitrate-Responsive Root
Transcriptional Factor

<130> 1263

<150> US 60/238,292

<151> 2000-10-05

<160> 2

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1280

<212> DNA

<213> Zea mays

<220>

<221> CDS

<222> (360)...(1082)

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cctctctctt	accttctttg	gcacgttcgg	cggcgcgcg	ggagaaagat	agatcccgcg	240
atcgctgctg	tcggtccttg	cttcgcatcg	gagggccaca	accacaacct	ctcgcctccat	300
agcgtgcaag	cgcgagccag	ggtcaagaag	agagctagct	agctataggc	cggagatcgc	359
atg ggg agg gga aag atc gtg atc cgc agg atc gat aac tcc acg agc						407
Met Gly Arg Gly Lys Ile Val Ile Arg Arg Ile Asp Asn Ser Thr Ser						
1 5 10 15						
cgg cag gtg acc ttc tcc aag cgc cgg aac ggg atc ttc aag aag gcc						455
Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala						
20 25 30						
aag gag ctc gcc atc ctc tgc gat gcg gag gtc ggc ctc gtc atc ttc						503
Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe						
35 40 45						
tcc agc acc ggc cgc ctc tac gag tac tct agc acc agc atg aaa tca						551
Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser						
50 55 60						
gtt ata gat cgg tac ggc aag gcc aag gaa gag cag caa gtc gtc gca						599
Val Ile Asp Arg Tyr Gly Lys Ala Lys Glu Glu Gln Gln Val Val Ala						
65 70 75 80						
aat ccc aac tcg gag ctt aag ttt tgg caa agg gag gca gca agc ttg						647
Asn Pro Asn Ser Glu Leu Lys Phe Trp Gln Arg Glu Ala Ala Ser Leu						
85 90 95						

aga caa caa ctg cac aac ttg caa gaa aat tat cgg cag ttg acg gga 695
Arg Gln Gln Leu His Asn Leu Gln Glu Asn Tyr Arg Gln Leu Thr Gly
100 105 110

gat gat ctt tct ggg ctg aat gtc aaa gaa ctg cag tcc ctg gag aat 743
Asp Asp Leu Ser Gly Leu Asn Val Lys Glu Leu Gln Ser Leu Glu Asn
115 120 125

caa ttg gaa aca agc ctg cgt ggt gtc cgc gca aag aag gac cat ctc 791
Gln Leu Glu Thr Ser Leu Arg Gly Val Arg Ala Lys Lys Asp His Leu
130 135 140

ttg ata gat gag att cac gat ttg aat cga aag gca agt tta ttt cac 839
Leu Ile Asp Glu Ile His Asp Leu Asn Arg Lys Ala Ser Leu Phe His
145 150 155 160

caa gaa aat aca gac ttg tac aat aag atc aac ctg att cgc caa gaa 887
Gln Glu Asn Thr Asp Leu Tyr Asn Lys Ile Asn Leu Ile Arg Gln Glu
165 170 175

aat gat gag tta cat aaa aag ata tat gag act gaa gga cca agt gga 935
Asn Asp Glu Leu His Lys Lys Ile Tyr Glu Thr Glu Gly Pro Ser Gly
180 185 190

gtt aat cgg gag tca ccg act cca ttc aac ttt gca gta gta gaa acc 983
Val Asn Arg Glu Ser Pro Thr Pro Phe Asn Phe Ala Val Val Glu Thr
195 200 205

aga gat gtt cct gtg caa ctt gaa ctc agc aca ctg cca cag caa aat 1031
Arg Asp Val Pro Val Gln Leu Glu Leu Ser Thr Leu Pro Gln Gln Asn
210 215 220

aac att gag cca tct act gct cct aag cta gga ttg caa tta att cca 1079
Asn Ile Glu Pro Ser Thr Ala Pro Lys Leu Gly Leu Gln Leu Ile Pro
225 230 235 240

tga agaagagtaa aactgccgtc ttatgatgct gaaggaaact atttattgtg 1132
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aagagatgat actcagagaa agacatatatt gtggcagggg gatttgagat atgaacttat 1192
aaatgtaatg caaataattt tcagaccgga atgggggtcgt ggaattcaga ggatgattgc 1252
tttctaaaaa aaaaaaaaaa aaaaaaaa 1280

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<211> 240
<212> PRT
<213> Zea mays

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Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala
20 25 30
Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe
35 40 45
Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser

